

```

0 AC_test_pidtid
0 > MAIN
0 > A
1 > B
2 < B
2 > B
3 > C
4 < C
4 < B
4 < A
4 > B
5 > A
6 > C
7 < C
7 > X
7 > E
8 < E
8 > F
9 < F
9 > G
10 < G
10 < X
10 < A
10 < B
10 < MAIN
  
```

FIG. 4

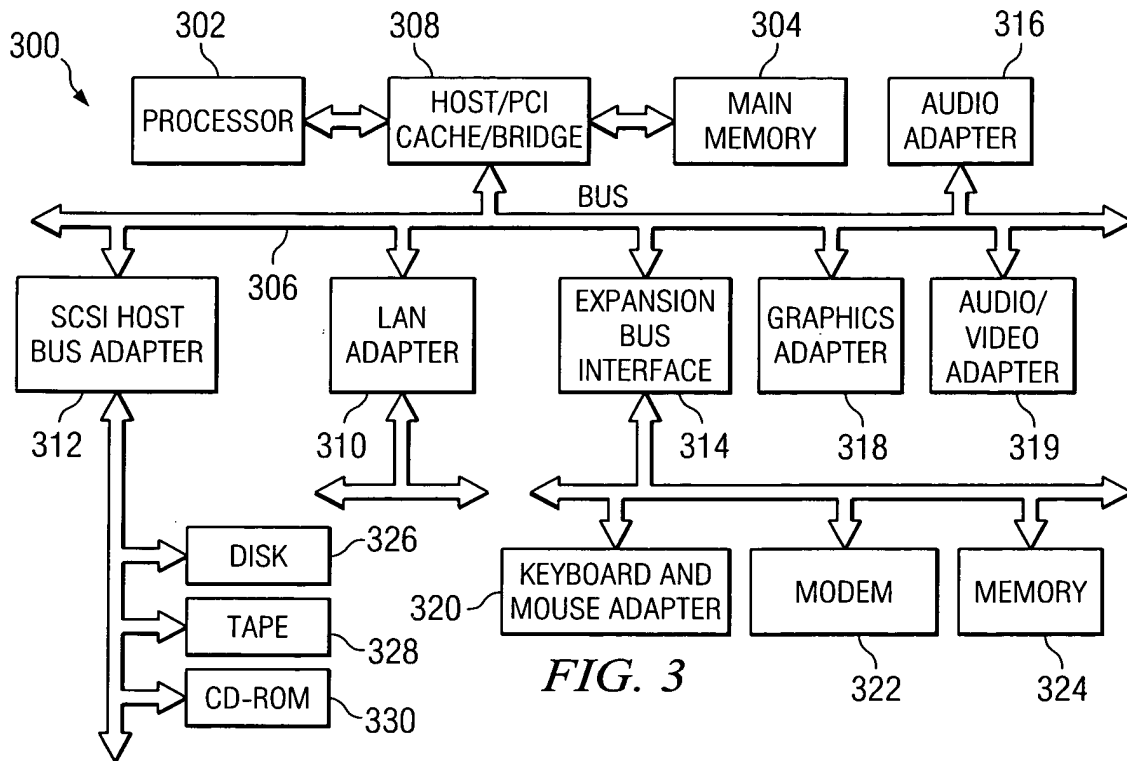


FIG. 3

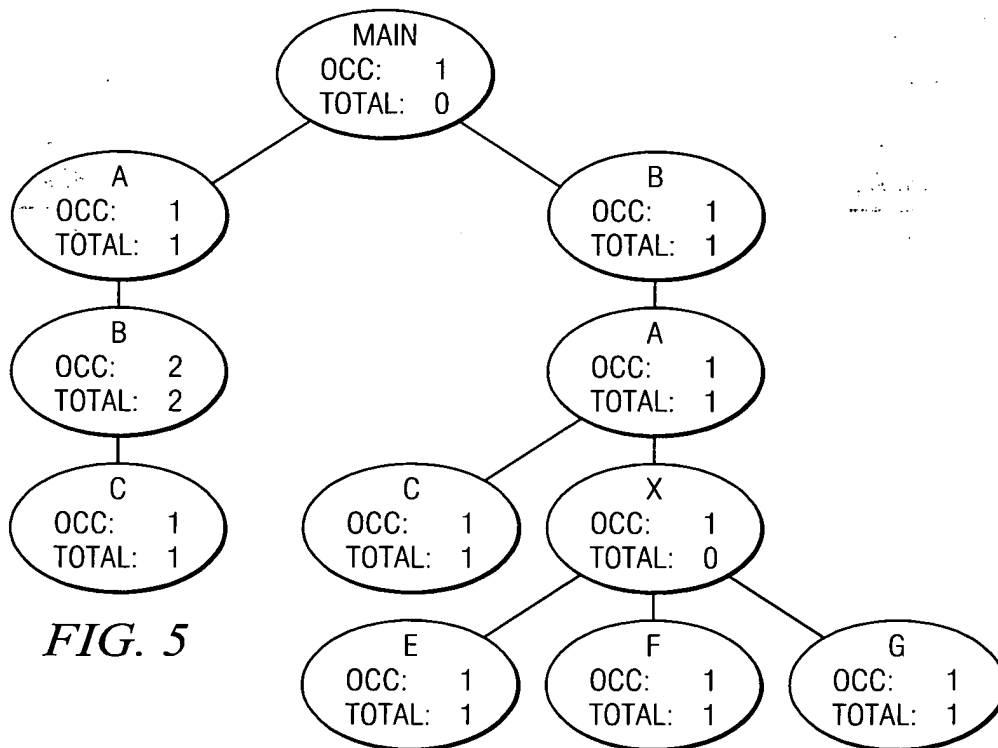


FIG. 5

SOURCE	CALLS	%BASE	%CUM	FUNCTION
=====	=====	=====	=====	=====
SELF	1	0.00	100.00	[0] AC_test_pidtid
CHILD	1	0.00	100.00	MAIN
=====	=====	=====	=====	=====
PARENT	1	0.00	100.00	AC_test_pidtid
SELF	1	0.00	100.00	[1] MAIN
CHILD	1	10.00	60.00	B
CHILD	1	10.00	40.00	A
=====	=====	=====	=====	=====
PARENT	2	20.00	30.00	A
PARENT	1	10.00	60.00	MAIN
SELF	3	30.00	90.00	[2] B
CHILD	1	10.00	50.00	A
CHILD	1	10.00	10.00	C
=====	=====	=====	=====	=====
PARENT	1	10.00	40.00	MAIN
PARENT	1	10.00	50.00	B
SELF	2	20.00	90.00	[3] A
CHILD	2	20.00	30.00	B
CHILD	1	0.00	30.00	X
CHILD	1	10.00	10.00	C
=====	=====	=====	=====	=====
PARENT	1	0.00	30.00	A
SELF	1	0.00	30.00	[4] X
CHILD	1	10.00	10.00	E
CHILD	1	10.00	10.00	G
CHILD	1	10.00	10.00	F
=====	=====	=====	=====	=====
PARENT	1	10.00	10.00	A
PARENT	1	10.00	10.00	B
SELF	2	20.00	20.00	[5] C
=====	=====	=====	=====	=====
PARENT	1	10.00	10.00	X
SELF	1	10.00	10.00	[6] E
=====	=====	=====	=====	=====
PARENT	1	10.00	10.00	X
SELF	1	10.00	10.00	[7] F
=====	=====	=====	=====	=====
PARENT	1	10.00	10.00	X
SELF	1	10.00	10.00	[8] G

FIG. 6

TOTAL: 10 CPU SECONDS					
Lv	RL	CALLS	%BASE	%CUM	INDENT HkKey_HkName
0	1	1	0.00	100.00	AC_test_pidtid
1	1	1	0.00	100.00	- MAIN
2	1	1	10.00	40.00	--A
3	1	2	20.00	30.00	---B
4	1	1	10.00	10.00	----C
2	1	1	10.00	60.00	--B
3	1	1	10.00	50.00	---A
4	1	1	10.00	10.00	----C
4	1	1	0.00	30.00	----X
5	1	1	10.00	10.00	----+E
5	1	1	10.00	10.00	----+F
5	1	1	10.00	10.00	----+G

FIG. 7

TRACE DATA FOR
 EXECUTION OF FIRST BUILD
 OF COMPUTER PROGRAM

```

0 pidtid xyz
3 > A
2 > B
7 < B
1 > C
5 > D
7 < D
    
```

FIG. 8A

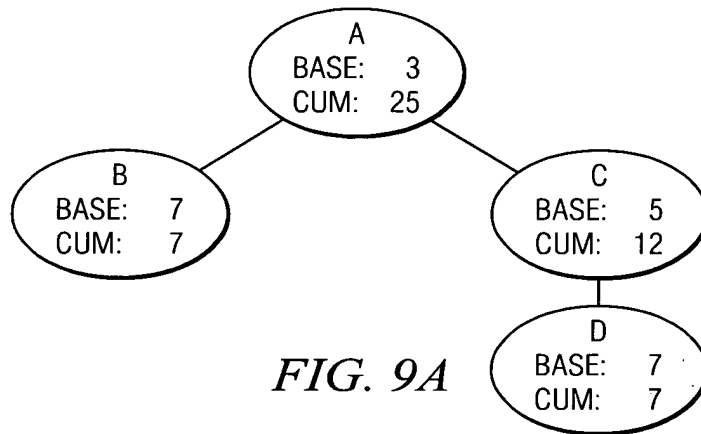


FIG. 9A

TRACE DATA FOR
 EXECUTION OF SECOND BUILD
 OF COMPUTER PROGRAM

```

0 pidtid xyz
3 > A
2 > B
7 < B
1 > C
5 > E
6 < E
    
```

FIG. 8B

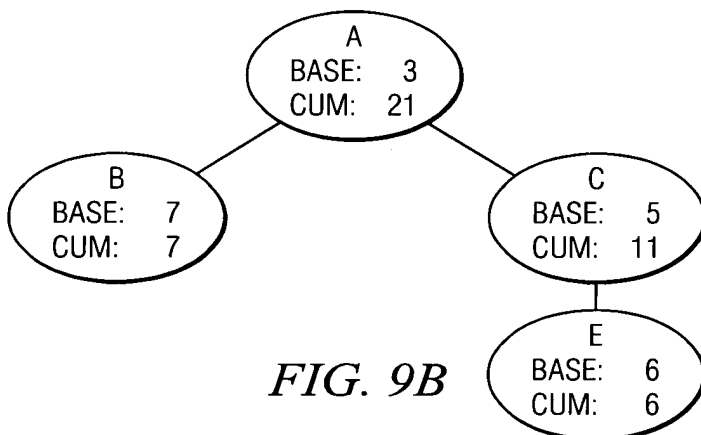


FIG. 9B

TOTAL: 25 CPU SECONDS									
Lv	RL	CALLS	%BASE	%CUM	BASE	CUM	INDENT	HkKey_HkName	
0	1	2	12.00	100.00	3	25	xyz_pidtid		
1	1	1	12.00	88.00	3	22	- A		
2	1	1	28.00	28.00	7	7	--B		
2	1	1	20.00	48.00	5	12	--C		
3	1	1	28.00	28.00	7	7	---D		

FIG. 10A

TOTAL: 24 CPU SECONDS									
Lv	RL	CALLS	%BASE	%CUM	BASE	CUM	INDENT	HkKey_HkName	
0	1	2	12.50	100.00	3	24	xyz_pidtid		
1	1	1	12.50	87.50	3	21	- A		
2	1	1	29.17	29.17	7	7	--B		
2	1	1	20.83	45.83	5	11	--C		
3	1	1	25.00	25.00	6	6	---E		

FIG. 10B

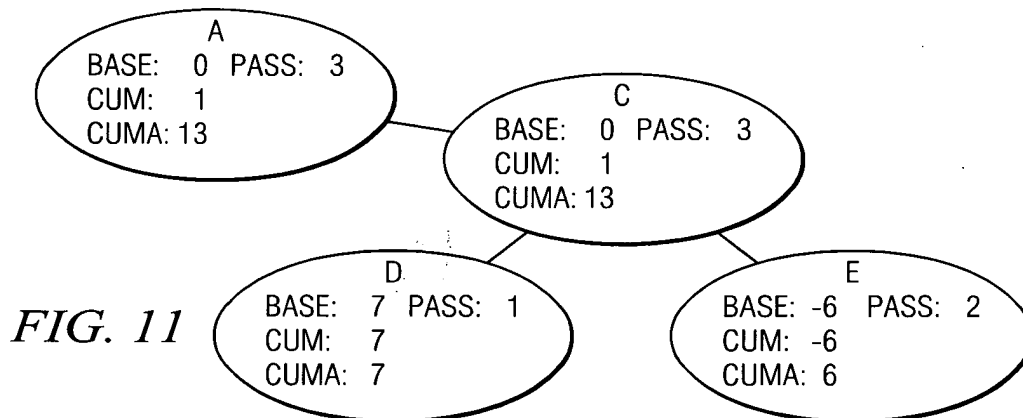
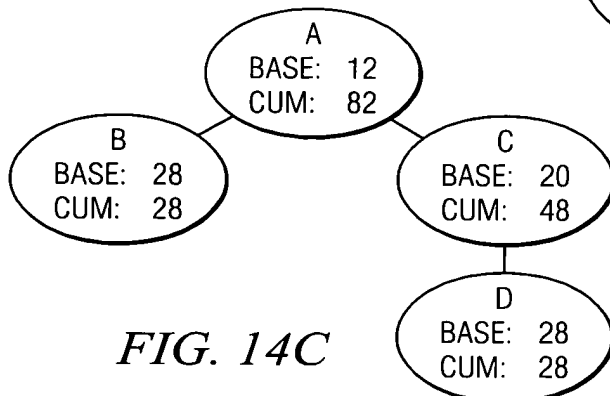
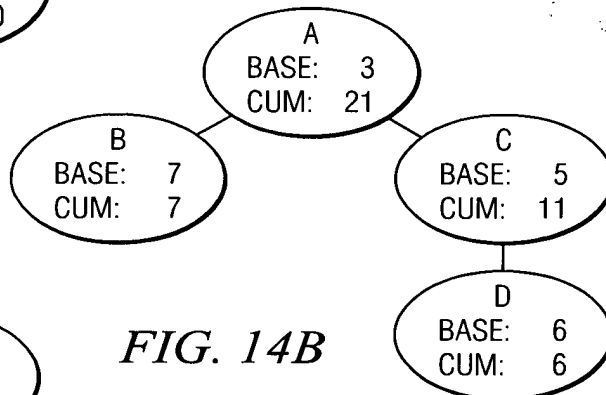
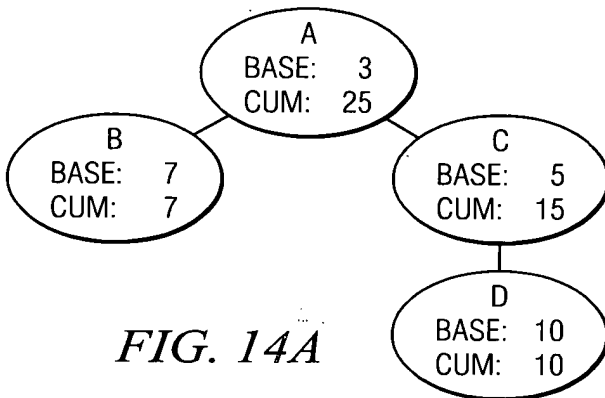
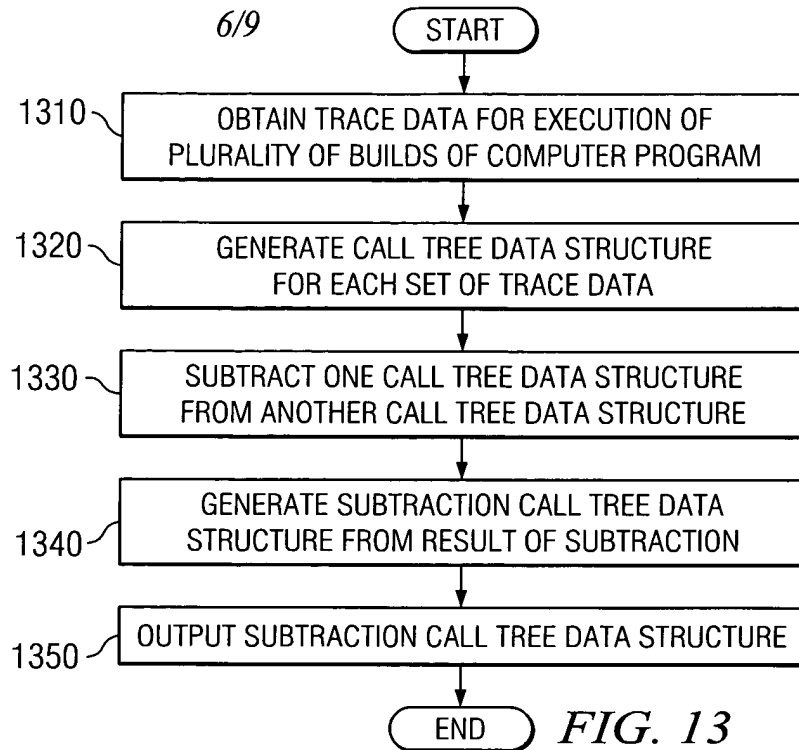


FIG. 11

TOTAL: 25 CPU SECONDS IN TREE A USED AS BASE FOR PERCENTAGES										
Lv	RL	CALLS	%BASE	%CUM	BASE	CUM	CumA	PASS	INDENT	HkKey_HkName
0	1	0	0.00	4.00	0	1	13			difference_pidtid
1	1	0	0.00	4.00	0	1	13	3		- A
2	1	0	0.00	4.00	0	1	13	3		--C
3	1	1	28.00	28.00	7	7	7	1		---D
3	1	-1	-24.00	-24.00	-6	-6	6	2		---E

FIG. 12

6/9



Lv	RL	CALLS	%BASE	%CUM	BASE	CUM	CumA	INDENT HkKey_HkName
0	1	3	12.16	100.00	9	74	74	bigtree_pidtid
1	1	3	12.16	87.84	9	65	65	- A
2	1	3	28.38	28.38	21	21	21	--B
2	1	3	20.27	47.30	15	35	35	--C
3	1	2	18.92	18.92	14	14	14	---D
3	1	1	8.11	8.11	6	6	6	---E

FIG. 15

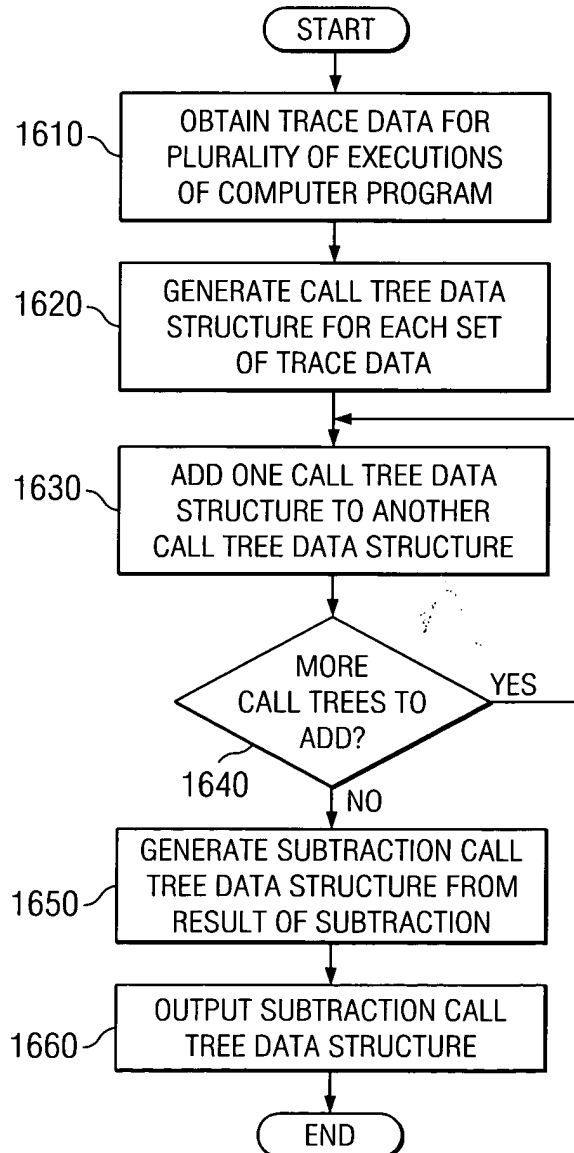


FIG. 16

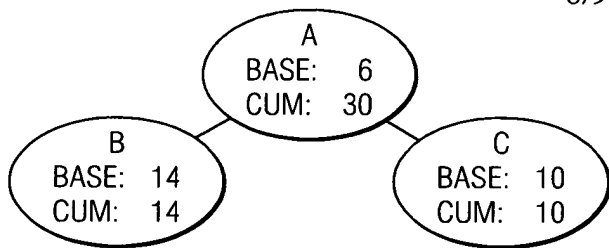


FIG. 17A

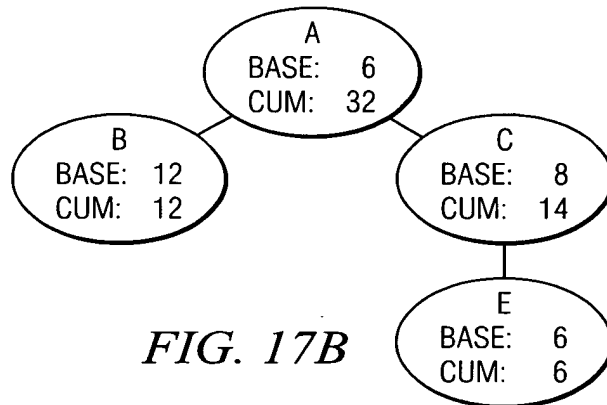


FIG. 17B

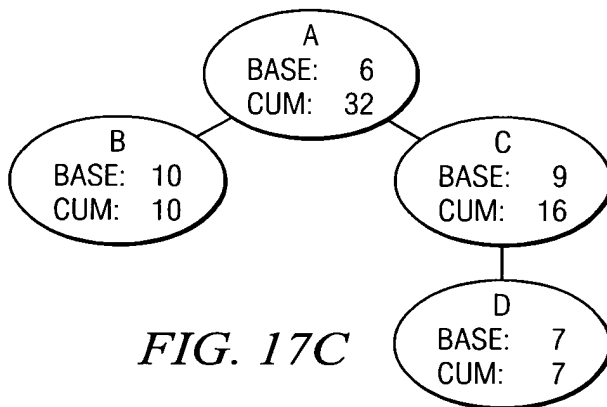


FIG. 17C

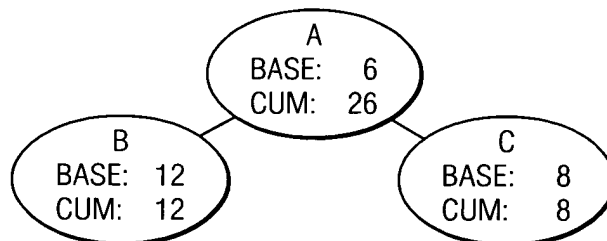


FIG. 18A

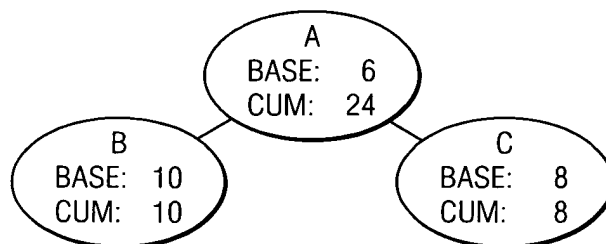


FIG. 18B

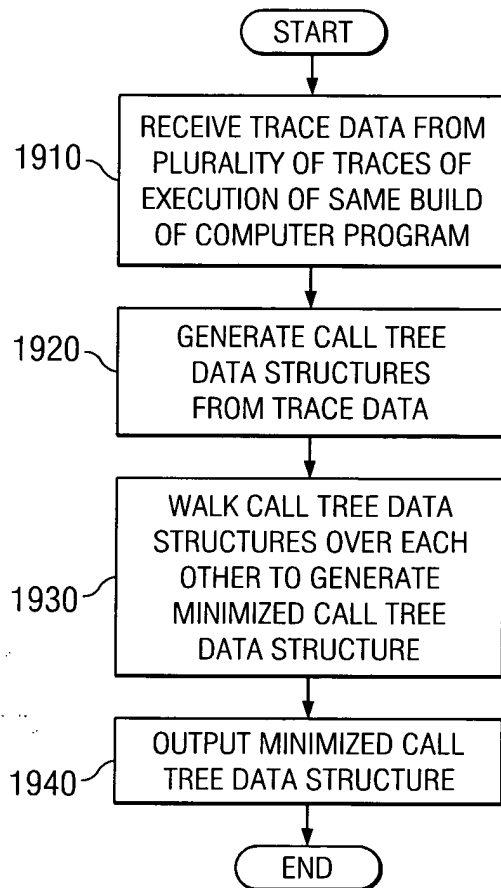


FIG. 19

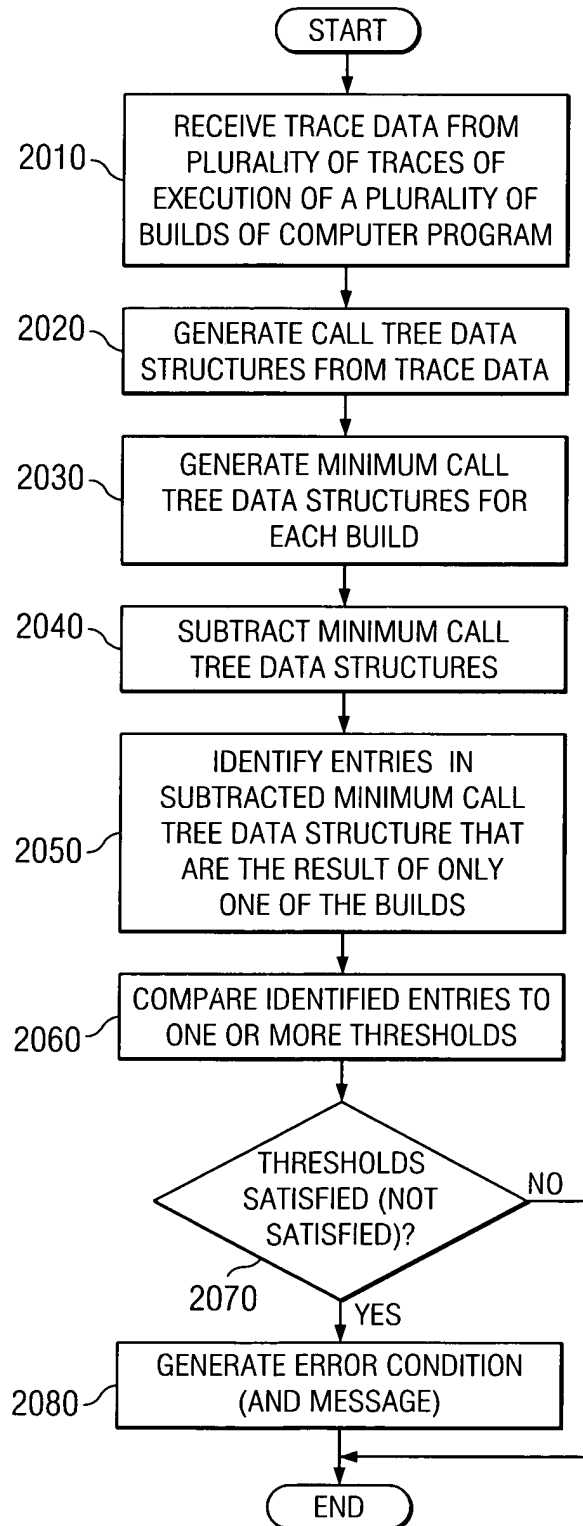


FIG. 20